#### **AGENDA**

#### DHCD Workgroup #3 2012 USBC International Residential Code June 14, 2012 - 9:30 a.m. - 3:30 p.m.

Location: Virginia Housing Center

#### **Lunch Provided by Reservation Only:**

Contact Janice Firestone at janice.firestone@dhcd.virginia.gov or 804-371-7150

#### **Meeting Agenda**

- 1. Introductions
- 2. 2012 USBC Regulatory Schedule and Public Hearings
- 3. 2009 USBC/IRC Technical Amendments retain, amend or delete
- 4. 2012 IRC
  - Wall bracing simplify
  - Window sills
  - Veneers
  - Duct lengths
  - Southern Pine
  - Stone footings
  - Deck guards
  - Defective drywall
  - Conditioned crawl spaces
  - Open porches
  - Attic and hatch insulation R-46
  - IRC energy trade-offs
  - Bed and Breakfast occupancy load
  - Habitable attic
  - Fuel gas CSST
  - HVAC manual J and heat pump thermostats
  - Arc-fault devices
  - 2015 code changes
  - Other technical code changes
- 5. New business
- 6. Next meeting
- 7. Adjournment

#### Code Change Form for the 2012 Code Change Cycle

		Code Change N	umber:	
Proponent Information	(Check one):	Individual	Government Entity	⊠Company
Name: Jim Harrell		Representing: B	ue Ridge Masonry Association	on
Mailing Address: 120 Wood Pine Drive, S	Stoneville, NC 2	7048		
Email Address: jharrell@triad.rr.com		Telephone Numl	per: (336)548-5815	
Proposal Information  Code(s) and Section(s): IRC R1001.8  Proposed Change (including all relevants)	section number	s, if multiple section	ons):	
or concrete. The total minimum thic masonry. When the inside surface surface shall be parged smooth wifirebrick at least 2 inches (51mm) provided, the total minimum thickness masonry, including the lining. Firely	walls shall be constructed of <i>solid masonry</i> units, hollow masonry units grouted solid, stort total minimum thickness of front, back and side walls shall be 8 inches (203mm) of <i>solid</i> the inside surface of the smoke chamber is formed by corbelled masonry, the inside parged smooth with refractory mortar conforming to ASTM C 199. When a lining of 2 inches (51mm) thick, or a lining of vitrified clay at least 5/8 inch (16mm) thick is all minimum thickness of front, back and side walls shall be 6 inches (152mm) of <i>solid</i> ing the lining. Firebrick shall conform to ASTM C 1261 and be laid with medium duty conforming to ASTM C 199. Vitrified clay linings shall conform to ASTM C 315.			

Supporting Statement (including intent, need, and impact of the proposal):

The noted Section is inconsistent with Section R1001.5 in regards to standard masonry wall thickness for fireplaces, which are typically exposed to more extreme temperatures. Safety is assured with the minimum thickness of solid masonry prescribed. Nonaqueous mortars are not practical for applying in the thicknesses required for constructing and parging the smoke chamber. Refractory mortar is not a readily available product which adds considerable cost and inconsistent enforcement, without the benefit of increasing the level of safety from historically proven industry standard practices.

#### **Submittal Information**

Date Submitted: March 20, 2012

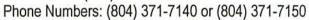
The proposal may be submitted by email as an attachment, by fax, by mail, or by hand delivery.

Please submit the proposal to:

DHCD DBFR TASO (Technical Assistance and Services Office) Main Street Center 600 East Main Street Richmond, VA 23219-1321

Email Address: taso@dhcd.virginia.gov

Fax Number: (804) 371-7092





		Code Ch	nange Numl	ber:	
Proponent Information (	Check one):	<u> </u>	dual	XGovernment Entity	□ Company
Name: Stephen Turchen		Represe	nting: Virgi	nia Building & Code Offic	ials Association
Mailing Address: Suite 316 / 12055 Govern	ment Center	Parkway,	Fairfax, VA	22035	
Email Address: Stephen.turchen@Fairfaxco	ounty.gov	Telepho	ne Number:	: 703-324-1653	
Proposal Information					
Code(s) and Section(s): 2012 IECC Section	C405.6				
Proposed Change (including all relevant se	ction numbers	s, if multip	le sections)	):	
Change Section C405.6 as shown:					
C405.6 Exterior lighting (Mandatory). Where the aAll exterior lighting, other than low-voltage land	•	•	•	0 0,	<b>U</b> -
Exception: Where approved because of historic	cal, safety, sigr	nage or em	ergency con	siderations.	
Supporting statement:					
The proposal would have the IECC apply to all building. This would eliminate the loophole of u code.					
Submittal Information					
Date Submitted:					
The proposal may be submitted by email as	s an attachme	ent, by fax	, by mail, or	r by hand delivery.	
Please submit the proposal to:					
DHCD DBFR TASO (Technical Assistance 600 East Main Street Suite 300 Richmond, VA 23219	and Services	·	Fax Numbe	ress: taso@dhcd.virginia.; er: (804) 371-7092 nbers: (804) 371-7140 or	•



	Code Change Number:
<u>Proponent Information</u> (Check one):	☐Individual ☐Government Entity ☐Company
Name: Matt Westheimer	Representing: VBCOA Energy Committee
Email Address: tmwestheimer@co.hanover.va.us	Telephone Number: (804) 365-6344
Proposal Information	
Code(s) and Section(s): VCC (IECC Section R402.4.2 and	I Table 402.4.1.1)
Proposed Change (including all relevant section numbers,	if multiple sections):
Change Section R402.4.2 and the last row of Table 402.4.1.1	as shown:
R402.4.2 Fireplaces. New wood-burning fireplaces shall be protight-fitting flue dampers and outdoor combustion air.	ovided with outdoor combustion air and shall have gasketed doors o
Tahle	R402.4.1.1
	valls. Fireplaces shall have gasketed doors or tight-fitting flue
	· · · · · · · · · · · · · · · · · · ·
Supporting Statement (including intent, need, and impact	of the proposal):
The proposal is to permit fireplaces to either have gasketed do site-built masonry fireplaces and factory-built fireplaces. Either	ors or tight-fitting dampers to accommodate common practice in both method will satisfy energy conservation goals.
Submittal Information	
Date Submitted: 3/21/12	
The proposal may be submitted by email as an attachmen	t, by fax, by mail, or by hand delivery.
Please submit the proposal to:	
DHCD DBFR TASO (Technical Assistance and Services 0 600 East Main Street Suite 300 Richmond, VA 23219	Office) Email Address: taso@dhcd.virginia.gov Fax Number: (804) 371-7092 Phone Numbers: (804) 371-7140 or (804) 371-7150



		Code Char	ige Number:		
Proponent Information	(Check one):	∐Individu	al 🗀	Government Entity	☐Company
Name: Matt Westheimer		Representi	ng: VBCOA	Energy Committee	
Email Address: tmwestheimer@co.hanov	rer.va.us	Telephone	Number: (80	04) 365-6344	
Proposal Information					
Code(s) and Section(s): VCC (IECC Table	e 402.4.1.1)				
Proposed Change (including all relevant s	section number	s, if multiple	sections):		
Add a footnote to Table 402.4.1.1 as shown:					
· AIR	TABI BARRIER AND I	LE R402.4.1. INSULATION		ON	
COMPONENT			CRIT	ERIAª <u>b</u>	
(no change to table) a. In addition, inspection of log walls shall be b. Structural integrity of headers shall be in a					
Supporting Statement (including intent, ne	eed, and impac	t of the prop	osal):		
The added footnote clarifies that while heade structural design.	rs are subject to	the energy pi	ovisions, they	। are also subject to the।	residential code for
Submittal Information					
Date Submitted: 3/21/12					
The proposal may be submitted by email	as an attachme	ent, by fax, b	y mail, or by	hand delivery.	
Please submit the proposal to:					
DHCD DBFR TASO (Technical Assistance 600 East Main Street Suite 300 Richmond, VA 23219	e and Services	Er Fa	x Number: (8	: taso@dhcd.virginia.g 804) 371-7092 rs: (804) 371-7140 or (	



#### Code Change Form for the 2012 Code Change Cycle

		Code Change Num	ıber:	
Proponent Information	(Check one):	Individual	XGovernment Entity	Company
Name: Stephen Turchen	. <del>.</del>	Representing: Virgi	inia Building & Code Officia	als Association
Mailing Address: Suite 316 / 12055 Gove	rnment Center	Parkway, Fairfax, VA	x 22035	
Email Address: Stephen.turchen@Fairfax	ксоunty.gov	Telephone Number	:: 703-324-1653	
Proposal Information				
Code(s) and Section(s): 2012 IECC Sect	ions C402.4.5.2	2 and C403.2.4.4		·
Proposed Change (including all relevant	section number	s, if multiple sections	s):	
C402.4.5.2 Outdoor air intakes and Exceptions:  3. Any grease duct serving a Code, Section 506.3, shall no C403.2.4.4 Shutoff damper control Exceptions:  3. Any grease duct serving a Code, Section 506.3, shall no	Type I hood in the required the required the following Type I hood in the following the requirements of th	nstalled in accorda o have a motorized ollowing exception nstalled in accorda	nce with International Monday of the last	
Supporting statement: These two IECC provisions potentially coevery duct or shaft that connects the (cora damper installed that will prevent unwathis one), the open shaft or duct can have without compromising health or life safety IMC Section 506.3.7 specifically states, in that grease can not collect in any portion which grease could collect. The propose alleviate individual code officials from have the safety and integrity of grease duct installed.	nditioned) interion the infiltration of an air infiltration. However, for a part, Duct systhereof An a direvisions will a ving to individual	or of a commercial but of outside air. In all of on damper installed a grease ducts ventila tems serving a Type air damper assembly avoid potential confli	uilding to the (unconditioned cases under the IBC and IM at or near the thermal enveloting Type I hoods installed I hood shall be constructed would provide one or sevects between the IECC and	d) exterior have MC (except for lope boundary under the IMC, d and installed so eral surfaces on IMC and
Date Submitted:				
The proposal may be submitted by email	as an attachme	ent, by fax, by mail, o	r by hand delivery.	

Please submit the proposal to:

Email Address: taso@dhcd.virginia.gov Fax Number: (804) 371-7092 Phone Numbers: (804) 371-7140 or (804) 371-7150



		Code Change N	lumber:	
Proponent Information	(Check one):	∏Individual	☐Government Entity	□Company
Name: Matt Westheimer		Representing: \	/BCOA Energy Committee	
Email Address: tmwestheimer@co.hanov	er.va.us	Telephone Num	nber: (804) 365-6344	
Proposal Information				
Code(s) and Section(s): VCC (IECC Section	ion C402.4.8)			
Proposed Change (including all relevant s	section number	s, if multiple secti	ons):	
Change Section C402.4.8 as shown:  C402.4.8 Recessed lighting. Recessed lumi between conditioned and unconditioned space or not more 2.0 cfm (0.944 L/s) when test recessed ILuminaires installed in the thermal or ceiling covering.	ces. All recessed ed in accordand	l luminaires shall b ce with ASTM E 2	e IC-rated and labeled as having 83 at a 1.57 psf (75 Pa) pres	g an air leakage rate sure differential. <del>All</del>
Supporting Statement (including intent, ne	eed, and impac	t of the proposal)		
Recessed lighting which is installed in condition	oned space sho	uld not have to be	sealed.	
Submittal Information				
Date Submitted: 3/21/12				
The proposal may be submitted by email	as an attachme	ent, by fax, by ma	il, or by hand delivery.	
Please submit the proposal to:				
DHCD DBFR TASO (Technical Assistanc 600 East Main Street Suite 300 Richmond, VA 23219	e and Services	Email <i>F</i> Fax Nu	Address: taso@dhcd.virginia.ç mber: (804) 371-7092 Numbers: (804) 371-7140 or	•



	Code Cha	ange Number:	
<u>Proponent Information</u> (Check one):	□Individ	ual Government Entity	□Company
Name: Matt Westheimer	Represen	ting: VBCOA Energy Committee	
Email Address: tmwestheimer@co.hanover.va.us	Telephon	e Number: (804) 365-6344	
Proposal Information			
Code(s) and Section(s): VCC (IECC Section R402.3.6)			
Proposed Change (including all relevant section numbers	s, if multiple	e sections):	
Delete Section R402.3.6 in its entirety as shown below:  R402.3.6 Replacement fenestration. Where some or all of anincluding sash and glazing, the replacement fenestration unit Table R402.1.1.	•	•	•
Supporting Statement (including intent, need, and impact	t of the pro	oosal):	
While Section R402.3.6 is addressing alterations to existing Construction Code anyway, deleting it in the IECC will make it	-	•	of the Virginia
Submittal Information			
Date Submitted: 3/21/12			
The proposal may be submitted by email as an attachme	ent, by fax,	by mail, or by hand delivery.	
Please submit the proposal to:	-		
DHCD DBFR TASO (Technical Assistance and Services 600 East Main Street Suite 300 Richmond, VA 23219	F	mail Address: taso@dhcd.virginia.gov ax Number: (804) 371-7092 hone Numbers: (804) 371-7140 or (80	



#### Code Change Form for the 2012 Code Change Cycle

		Code Change Number:		
Proponent Information	(Check one):	Individual	XGovernment Entity	□Company
Name: Stephen Turchen		Representing: Vi	rginia Building & Code Offic	ials Association
Mailing Address: Suite 316 / 12055 G	overnment Center	Parkway, Fairfax,	VA 22035	
Email Address: Stephen.turchen@Fa	uirfaxcounty.gov	Telephone Numb	per: 703-324-1653	
Proposal Information				
Code(s) and Section(s): 2012 IECC 5	Section C402.1.1			
Proposed Change (including all relev	ant section number	s, if multiple sectio	ns):	
C402.1.1 Insulation and fenestr The thermal envelope of Bouildin allowed in Table C402.3 shall co	ngs with a vertical <del>mply with the bui</del>	fenestration are lding envelope p	a or skylight area that exc <del>rovisions of ANSI / ASH</del>	RAE/IESNA

Supporting Statement (including intent, need, and impact of the proposal):

evaluated using a software tool as indicated in Sections C407.6, C407.6.1, and C407.6.2.

This change clarifies two important issues when evaluating thermal envelopes of commercial buildings. The prescriptive requirements of thermal envelopes are limited by vertical fenestration area and skylight area. However, these limits are not defined by Table C402.3, but rather in the code language of Sections C402.3 and its sub-sections. Assuming that vertical fenestration and skylight areas are within the allowable limits of the code text, then the prescriptive values of Table C402.3 can be applied. The more critical issue is how to proceed if the stated limits are exceeded. The current paragraph directs the user to building envelope provisions of ASHRAE Standard 90.1; see Section 5 of that standard. Presumably the current IECC intent is that 90.1 / Section 5 be used in lieu of IECC Section C402. This intent conflicts with **C401.2 Applicability**, which tells the IECC user to, effectively, use either the IECC in its entirety or Standard 90.1 in its entirety for commercial buildings; see options 1 and 2 under C401.2. The proposal addresses this potential conflict by directing the IECC user to certain sub-sections of IECC Section C407 Total Building Performance. The cited sections under C407.6 allow the user to employ an envelope analysis tool that has been approved by the building official under C407.6.1 ("limited scope"), without getting involved in the more complex full building performance analysis discussed in all of C407. Note that by not directing the IECC user to Section C407 when fenestration / skylight areas are exceeded, another potential conflict with Section C401.2 (Option 3) is also avoided. Impact of the change will help ensure that both designers and code officials have a well-defined enforcement path for all thermal envelope situations in commercial buildings, and that such enforcement will be more uniformly implemented throughout the State.

#### **Submittal Information**

Date Submitted:	

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Please submit the proposal to:

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Email Address: taso@dhcd.virginia.gov

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Phone Numbers: (804) 371-7140 or (804) 371-7150



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Proponent Information	(Check one):	Individual	XGovernment Entity	Company
Name: Stephen Turchen	·	Representing: Vir	ginia Building & Code Officia	als Association
Mailing Address: Suite 316 / 12055 Gove	ernment Center	Parkway, Fairfax, V	'A 22035	
Email Address: Stephen.turchen@Fairfa	xcounty.gov	Telephone Number	er: 703-324-1653	
Proposal Information				
Code(s) and Section(s): 2012 IECC Sect	ions R202 and	C202		
Proposed Change (including all relevant	section numbers	s, if multiple section	s):	
Change the definition of "Building thermal er	nvelope" in Sectio	ns R202 and C202 a	s shown:	
BUILDING THERMAL ENVELOPE. The baconditioned space or provides a boundary I shall include those buildings or spaces adjactime, such as adjacent townhouses or adjacent	between condition cent to a condition	ned space and exem oned space that may	pt or unconditioned space. Un not be heated or cooled for e	nconditioned space
Supporting statement:	,			
The proposed change is intended to ensure space and those spaces which have a reast albeit temporary period of time. Typical restownhouse. Typical commercial building expace. If the common wall between the tow transfer across that boundary. The proposal	onable expectation idential building example is a tena vnhouses or betw	on of being unoccupie example is an occupi nt space that is adja een the tenant space	ed (and therefore unconditioned ed townhouse that is adjacent acent to a vacant or simply upens is uninsulated, there will be	ed) for a significant t to an unoccupied ndeveloped tenant
There may be cost impacts of this proposal include insulating materials that could also build a stud wall on the inside of the rated walls are not commonly insulated for energy transmission attenuation. Sound insulation of Table C402.2.	satisfy the wall F wall, which could gy conservation o	l-value requirement. be filled with materi or to achieve a fire	Common townhouse constru- ials with the required R-value. rating, but ARE sometimes in	ction practice is to Tenant demising insulated for sound
Submittal Information				•
Date Submitted:				
The proposal may be submitted by email	as an attachme	nt, by fax, by mail,	or by hand delivery.	

Please submit the proposal to:

Email Address: taso@dhcd.virginia.gov Fax Number: (804) 371-7092 Phone Numbers: (804) 371-7140 or (804) 371-7150



		Code Change N	umber:	
Proponent Information	(Check one):	Individual	XGovernment Entity	□Company
Name: Stephen Turchen		Representing: V	irginia Building & Code Offic	ials Association
Mailing Address: Suite 316 / 12055 Gov	vernment Center	Parkway, Fairfax,	VA 22035	
Email Address: Stephen.turchen@Fairf	axcounty.gov	Telephone Num	ber: 703-324-1653	
Proposal Information				
Code(s) and Section(s): 2012 IECC R4	03.1.1			
Proposed Change (including all relevan	it section number	s, if multiple section	ons):	
R403.1.1 Programmable thermostone thermostat per The thermostat of shall be capable of controlling the hand temperature set points at different to	controlling the reating and cool	primary heating of the primary heating of a	or cooling system of the d daily schedule to maintai	lwelling unit
Supporting Statement (including intent, This suggested change recognizes that may benefit from programmable thermo programmed for night or "unoccupied" scooling system, at minimum, is the systencessary for those residential dwelling systems, or radiant electric systems with thermostat? It is the "primary" system, reasonable interpretation by the Building programmable thermostats in multiple in	forced air heating stats. Hydronic, setback periods. em that should require units that have not thermostats in eatypically the one of Official. Impact	g and air condition radiant electric, ar The proposal condeceive the program nultiple systems; each room. Which serving the largest	ning systems are not the only nd solar thermal systems con currently clarifies that the prin mable thermostat. This clar e.g., first floor / second floor f a system must have a progra carea of the dwelling, but sul	uld also be mary heating or ification is orced air immable bject to
			·	
Submittal Information				
Date Submitted:				
The proposal may be submitted by ema	uil as an attachme	ent, by fax, by mail	, or by hand delivery.	
Please submit the proposal to:				

Email Address: taso@dhcd.virginia.gov Fax Number: (804) 371-7092 Phone Numbers: (804) 371-7140 or (804) 371-7150



	Code Change Number:	
<u>Proponent Information</u> (Check one):	☐Individual ☐Government Entity	Company
Name: Bruce Cornwall	Representing: VBCOA Energy Committee	
Mailing Address: 302 N Main St., Culpeper, VA 22701		
Email Address: bcornwall@culpepercounty.gov	Telephone Number: (540) 727-3444, Ext. 387	
Proposal Information		
Code(s) and Section(s): VCC (IECC R402.4.1.2.1)		
Proposed Change (including all relevant section numbers	, if multiple sections):	
Add new Section R402.4.1.2.1 to the 2012 IECC to read R402.4.1.2.1 Visual inspection option. Field verification applicable to the method of construction, shall be an acc	n by visual inspection of the items listed in	<u>Table 403.4.2,</u> 02.4.1.2,
Supporting Statement (including intent, need, and impact	of the proposal):	
A thorough visual inspection of the air sealing done before air sealing done after a failed blower door test.	e drywall will be more cost effective and save mo	re energy than
Submittal Information		
Date Submitted: 3/15/12		
The proposal may be submitted by email as an attachme	it, by fax, by mail, or by hand delivery.	
Please submit the proposal to:		
DHCD DBFR TASO (Technical Assistance and Services 600 East Main Street Suite 300 Richmond, VA 23219	Office) Email Address: taso@dhcd.virginia.gov Fax Number: (804) 371-7092 Phone Numbers: (804) 371-7140 or (804)	4) 371-7150



		Code Change Number:							
Proponent Information	(Check one):	☐Individual	XGovernment Entity	□ Company					
Name: Stephen Turchen		Representing: Virginia Building & Code Officials Association							
Mailing Address: Suite 316 / 12055 Government Center Parkway, Fairfax, VA 22035									
Email Address: Stephen.turchen@Fairfa	axcounty.gov	Telephone Num	ber: 703-324-1653						
Proposal Information									
Code(s) and Section(s): 2012 IECC R40	)2.2.1								
Proposed Change (including all relevant	section numbers	s, if multiple secti	ons):						
R402.2.1 Ceilings with attic spare R30 over 100% of the ceiling are height of uncompressed R30 insu R402.1.1 would require R49 in the satisfy the requirement for R49 we wall top plate at the eaves. This is R402.1.3 and the total UA alternative R402.1.3 and the	a shall be deem lation extends on ceiling, instantive in Section meed, and impact ret the "alternative trepreted R402. O could be installed endment seeks the top plate. The unting for actual reviously enforce	ned to satisfy the over the wall to a ling R38 over the ling R38 over the line and a lin	e requirement for R38 where p plate at the eaves. Similar 100% of the ceiling area shadompressed R30 insulation e U-factor alternative approximate on requirement. It has come to R38 over the wall top plate who fithe attic where height permit could be used throughout the ensistent with US DOE analysis as to reduce overall installed ins	never the full urly, when Section all be deemed to extends over the ach in Section to VBCOA's nen using "raised ts, R49 would in entire attic, s of heat flow Depending on					
Submittal Information									
Date Submitted:	····								
The proposal may be submitted by emai	l as an attachme	nt, by fax, by mai	I, or by hand delivery.						
Please submit the proposal to:				•					

Email Address: taso@dhcd.virginia.gov

Fax Number: (804) 371-7092

Phone Numbers: (804) 371-7140 or (804) 371-7150



		Code Change Number:				
Proponent Information	(Check one):	□Indiv	vidual	☐Government Entity	Company	
Name: Bruce Cornwall		Represe	esenting: VBCOA Energy Committee			
Mailing Address: 302 N Main St., Culpepe	er, VA 22701					
Email Address: bcornwall@culpepercounty.gov		Telephone Number: (540) 727-3444, Ext. 387				
Proposal Information						
Code(s) and Section(s): VCC (IECC R40	2.2.3)					
Proposed Change (including all relevant s	section numbers	s, if multip	ole sections	<b>)</b> :		
Change Section R402.2.3 of the 2012 IE R402.2.3 Eave baffle. For air permeable vents. Baffles shall maintain an opening of the attic insulation. The baffle shall be pe	insulations in ve equal or greater	ented atti r than the	size of the	vent. The baffle shall exter	to soffit and eave nd over the top of	
Supporting Statement (including intent, ne	eed, and impact	t of the pr	oposal):			
By changing the word "solid" to "approved smoke and flame spread criteria. The material content is a specific content of the s	d" you lower the terial would still	possibilit have to r	y of having meet the req	a material installed that ma juirement of being not easi	ay not meet ly crushed.	
Submittal Information						
Date Submitted: 3/15/12						
The proposal may be submitted by email	as an attachme	nt, by fax	, by mail, or	by hand delivery.		
Please submit the proposal to:						
DHCD DBFR TASO (Technical Assistanc 600 East Main Street Suite 300 Richmond, VA 23219	e and Services	,	Fax Number	ess: taso@dhcd.virginia.go r: (804) 371-7092 ıbers: (804) 371-7140 or (8		

